

MODEL THEORY SEMINAR

Guest Speaker: Leo Jimenez
University of Waterloo

Date: Tuesday, March 28, 2023

Time: 10:30 AM

Location: 125 Hayes-Healy Hall

Zoom URL: NA



Lecture Title:

Consequences of the Borovik-Cherlin conjecture for ACF₀

Abstract

In a recent paper, Freitag and Moosa proved the Borovik-Cherlin conjecture for algebraically closed fields of characteristic zero. It bounds the degree of generic transitivity of a definable homogeneous space in function of the dimension of the space. They used it to obtain an effective method to determine if a type is strongly minimal. In this talk, I will give consequences of this result for differentially closed fields of characteristic zero: a bound on how many realizations are needed to check if two types are orthogonal, and more Borovik-Cherlin like results. Joint with Freitag and Moosa.